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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/830,036	04/19/2001	Nobuyuki Komaba	NSG-188US	9422
	23122	23122 7590 10/21/2003		EXAMINER	
	RATNERPRESTIA P O BOX 980			CRANE, SARA W	
	VALLEY FORGE, PA 19482-0980			ART UNIT	PAPER NUMBER
				2811	_

DATE MAILED: 10/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
. Office Action Cummen.	09/830,036	KOMABA ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication ann	Sara W. Crane	2811				
The MAILING DATE of this communication appeared for Reply	ears on the cover sheet with the c	orrespondenc address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1) Responsive to communication(s) filed on 28 J	<u>uly 2003</u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)□ Thi	s action is non-final.					
3) Since this application is in condition for allowa						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>						
4)⊠ Claim(s) <u>1-5 and 12-17</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>5</u> is/are allowed.	5)⊠ Claim(s) <u>5</u> is/are allowed.					
6)⊠ Claim(s) <u>2 and 4</u> is/are rejected.	6)⊠ Claim(s) <u>2 and 4</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	)-(d) or (f).				
a) All b) Some * c) None of:		, , , , , ,				
1.☐ Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents		on No				
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				
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.Application/Control Number: 09/830,036

-Art Unit: 2811

## **DETAILED ACTION**

The paper of 28 July 2003 lists claims 6-11 as "withdrawn." These claims were canceled by amendment of 26 December 2002. Since the claims were canceled, they are no longer pending.

## Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 3, and 12-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kusuda et al. in view of Uchida and Ek et al.

See reasons of record in the Office action of 1 April 2003.

## Conclusion

Applicant argues with respect to the rejected claims that the references do not teach the plurality of AlGaAs layers as recited as part of the active layers. Nothing in these claims seems to require that these layers be active, however. Claims 1 and 3, for example, say only that the AlGaAs layers are stacked on a buffer layer. Examiner notes that claim 5 was allowed, and claims 2 and 4 objected to, in the previous Office action.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

-Art Unit: 2811

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (703) 308-4894.

The fax phone number for this Group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist, whose telephone number is (703) 308-0956.

Sara W. Crane Primary Examiner

Art Unit 2811